

TRU-TRAC™ TT-92B SERIES

PORTABLE
INTERMITTENT
TRACTION MACHINE

Operating Instructions



FOR CUSTOMER USE:

Please enter below the model number and serial number which are located on the voltage rating plate on the side of the cabinet. Retain this information for future reference.

Model Number _____

Serial Number _____

CAUTION!

Read this instruction booklet carefully and completely before using your TRU-TRAC.™

PREFACE

Congratulations on your investment in the TRU-TRAC™ model TT-92B series portable intermittent traction machine. This booklet contains important safety information and instructions and should be read carefully and completely before using your TRU-TRAC™.

LIMITED WARRANTY INFORMATION

The LIMITED WARRANTY is contained on the WARRANTY REGISTRATION CARD included with your TT-92B series TRU-TRAC™. To validate your warranty and be sure that you are on the mailing list for future notifications, it is essential that you read, fill out and mail the enclosed registration card. Also, please enter both the model number and serial number where indicated on the cover of this booklet.

FAILURE TO USE AND MAINTAIN THE MACHINE AND ACCESSORIES IN ACCORDANCE WITH THESE INSTRUCTIONS WILL INVALIDATE YOUR WARRANTY. Please read the enclosed WARRANTY REGISTRATION CARD and these instructions carefully.

WARNING!

DO NOT CONNECT THE MACHINE TO THE ELECTRICAL SUPPLY WITHOUT FIRST VERIFYING THAT IT IS THE CORRECT VOLTAGE. Incorrect voltage may cause machine damage, malfunction, electrical shock, fire or personal injury. Your TT-92B series TRU-TRAC™ was constructed to operate only on the electrical voltage specified on the voltage rating and serial number plate. Please contact your supplier if the machine is not properly rated.

DO NOT USE A DAMAGED POWER SUPPLY CORD. Using a damaged power supply cord may cause machine damage, malfunction, electrical shock, fire or personal injury. If the power supply cord becomes damaged, immediately discontinue using the machine and contact the factory for replacement of the power supply cord.

DO NOT USE A WORN BRAIDED TRACTION CORD. Using a worn braided traction cord may cause machine damage, malfunction, or personal injury. If signs of wear are observed on the braided traction cord, immediately discontinue using the machine and consult the factory for replacement of the braided traction cord.

DO NOT REMOVE THE COVER. Removing the cover may cause machine damage, malfunction, electrical shock, fire or personal injury. There are no user-serviceable parts inside the machine. If a malfunction occurs, immediately discontinue using the machine, disconnect the AC power cord from the AC outlet and consult the factory for repair service.

DO NOT PERMIT ANY FOREIGN MATERIALS OR LIQUIDS TO ENTER THE MACHINE. Care should be taken to prevent any foreign materials, including but not limited to inflammables, water and metallic objects, from entering the machine. Foreign materials such as inflammables, water or metallic objects may cause machine damage, malfunction, electrical shock, fire or personal injury.

DO NOT DISASSEMBLE, MODIFY OR REMODEL THE MACHINE OR ACCESSORIES. Disassembly, modification or remodeling of the machine or accessories may cause machine damage, malfunction, electrical shock, fire or personal injury.

USE THIS MACHINE ONLY WITH TABLES, STANDS AND ACCESSORIES SPECIFICALLY DESIGNED AND MANUFACTURED BY TRU-TRAC THERAPY PRODUCTS INC. FOR USE WITH A TRU-TRAC™. Using this machine with tables, stands or accessories not specifically designed and manufactured by TRU-TRAC THERAPY PRODUCTS INC. for use with a TRU-TRAC™ may cause machine damage, malfunction, electrical shock, fire or personal injury.

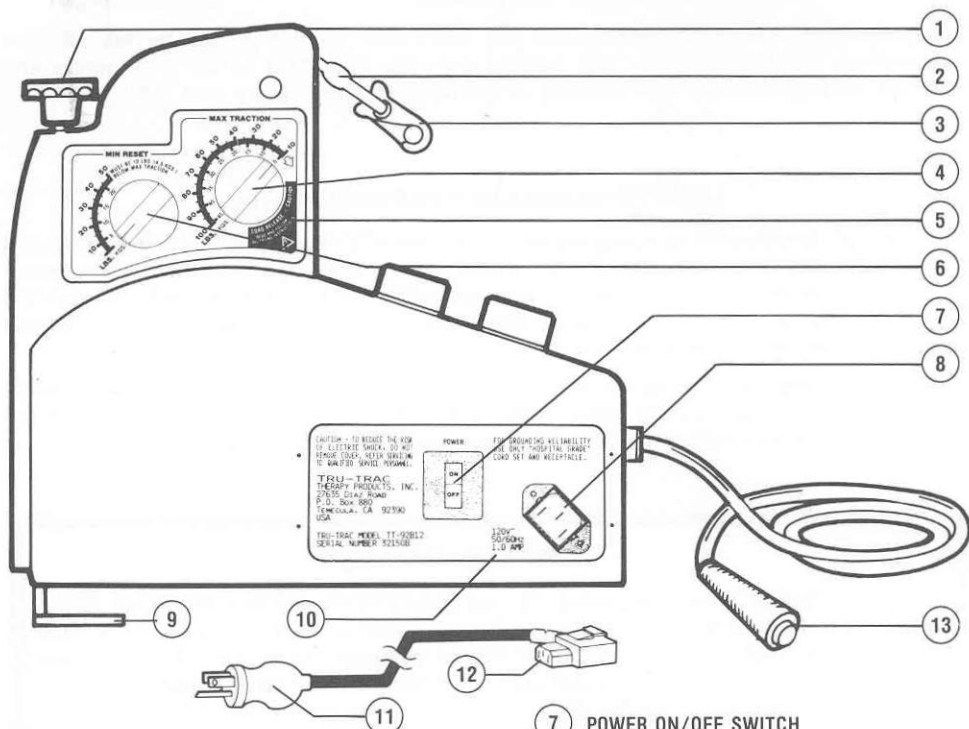


The exclamation point within a triangle is an international symbol which means "Attention, consult accompanying documents." As used on the Cord Release position of the max traction dial and the Caution Conditions section of the instrument panel, the symbol is intended to alert the user to important instructions which are provided in this booklet. Refer to items 5 and 19 in the "Operating Controls and Features" section of these instructions for details.

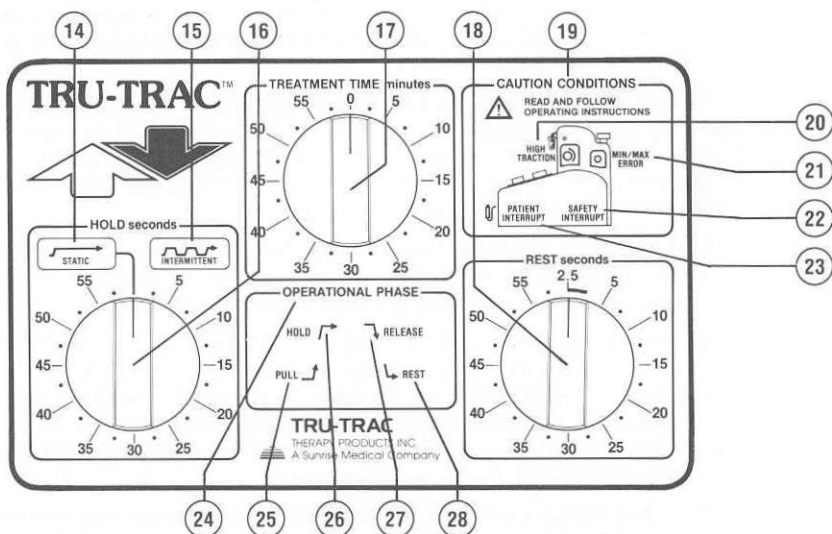
TRU-TRAC™

Save this manual for future reference.

CONTROL REFERENCE GUIDE



- | | |
|-------------------------|---|
| 1 CLAMPING KNOB | 7 POWER ON/OFF SWITCH |
| 2 BRAIDED TRACTION CORD | 8 POWER SUPPLY RECEPTACLE |
| 3 ACCESSORY CONNECTOR | 9 CLAMPING BRACKET |
| 4 MAX TRACTION KNOB | 10 VOLTAGE RATING & SERIAL NUMBER PLATE |
| 5 CORD RELEASE POSITION | 11 POWER SUPPLY CORD (MALE END) |
| 6 MIN RESET KNOB | 12 POWER SUPPLY CORD (FEMALE END) |
| | 13 PATIENT INTERRUPT SWITCH |



- | | |
|---|------------------------------|
| 14 STATIC TRACTION MODE INDICATOR | 21 MIN/MAX ERROR DISPLAY |
| 15 INTERMITTENT TRACTION MODE INDICATOR | 22 SAFETY INTERRUPT DISPLAY |
| 16 HOLD TIMER KNOB | 23 PATIENT INTERRUPT DISPLAY |
| 17 TREATMENT TIMER KNOB | 24 OPERATIONAL PHASE SECTION |
| 18 REST TIMER KNOB | 25 PULL PHASE DISPLAY |
| 19 CAUTION CONDITIONS SECTION | 26 HOLD PHASE DISPLAY |
| 20 HIGH TRACTION DISPLAY | 27 RELEASE PHASE DISPLAY |
| | 28 REST PHASE DISPLAY |

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MAINTENANCE

A preventative maintenance inspection and calibration check is recommended every six months. Arrange with your dealer or other local qualified service personnel for this servicing. In the interest of safety, do not attempt to perform this maintenance yourself.

To clean the machine, wipe it with a cloth. Do not use thinners or solvents as these may damage the surface or blur the instrument panels and dials. For more thorough cleaning, wipe with a cloth dampened (not dripping wet) with a diluted neutral non-abrasive cleaning agent (e.g. "409" or "Fantastic" brands). PREVENT LIQUID AND FOREIGN MATERIALS FROM ENTERING YOUR TRU-TRAC™; read and follow warning on page 1.

REPAIR

Consult the factory for all repair service other than a preventative maintenance inspection and calibration check. A loaner/rental unit is available for use while your machine is being repaired.

Users located outside the United States should consult their supplier for servicing and repair.

Repairs by unauthorized personnel or the use of replacement parts not supplied by TRU-TRAC Therapy Products Inc. is DANGEROUS, may result in damage, and will invalidate your warranty. Read and follow warning on page 1.

ACCESSORIES INCLUDED WITH TT-92B SERIES TRU-TRAC™



**COMPLIMENTARY SAMPLE
HEAD HALTER**
(Various Catalog Numbers)



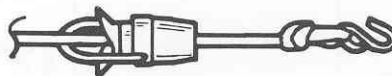
OPERATING INSTRUCTIONS
(Document No. 990002C)



WARRANTY REGISTRATION CARD
(DOCUMENT NO. 997200B)



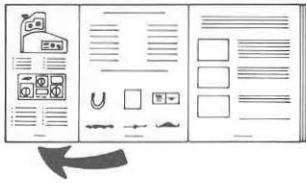
POWER SUPPLY CORD
(Cat. No. 868340)



**LINE-TITE CLAMP WITH
TRACTION CORD EXTENSION**
(Cat. No. PT-110)



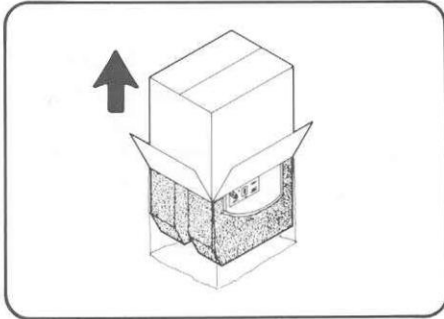
SPREADER BAR WITH STRUT
(Cat. No. SC-31S)



SUGGESTION:

Throughout these instructions, you will find numbers in circles that correspond to the fold-out "Control Reference Guide" on page 2. While reading, leave it unfolded for easy identification of control and feature locations.

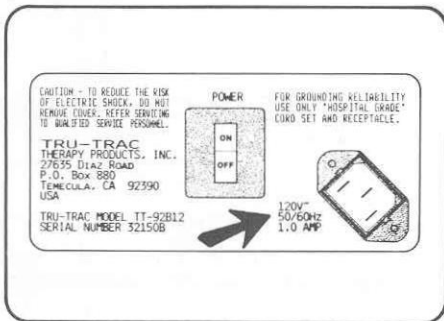
UNPACKING



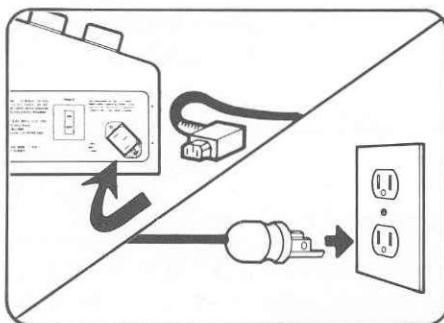
With carton resting on floor, fold back top flaps, remove accessory packet, and carefully turn complete package upside down. Next, slide the carton up and away from the contents. Protective plastic wrapping and foam inserts may now be removed as the machine is returned to right-side up. Save the carton and protective packaging for possible future use. Inspect machine for any visible damage which may have occurred during transit. If damage is noted, a claim should be filed immediately with the transportation company; not with TRU-TRAC Therapy Products Inc.

BEFORE INSTALLATION

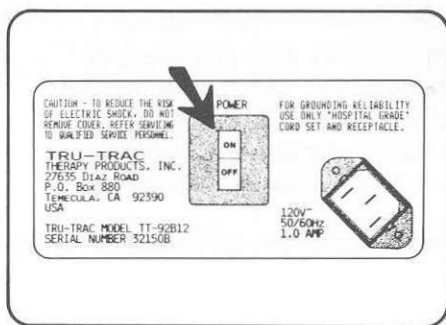
Before installation, traction force which was preset for shipment must be released properly to prevent damage. Complete these steps before using the Cord Release (5) feature:



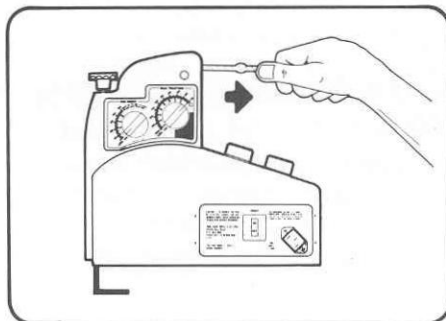
- A. VERIFY that your electrical supply matches the voltage rating specified on the Voltage Rating & Serial Number Plate (10). Contact your supplier if the machine is not properly rated. Read and follow warning on page 1.



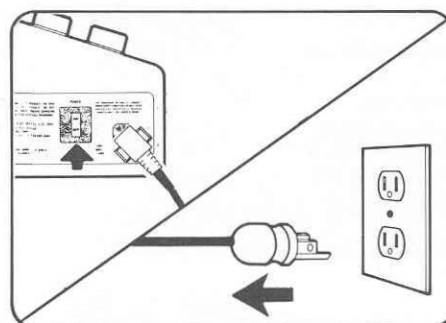
- B. CONNECT Power Supply Cord (Female End) (12) to machine's Power Supply Receptacle (8) making sure that the locking tabs are engaged. CONNECT Power Supply Cord (Male End) (11) to a properly grounded electrical outlet. Read and follow warning on page 1.



- C. MOVE Power On/Off Switch (7) to the "ON" position.



- D. Manually PULL end of Braided Traction Cord (2) until knot no longer touches unit. If motor does not start and gradually release shipment tension, re-check steps A through C. If motor still does not start, refer to "In Case of Trouble" section of these instructions.

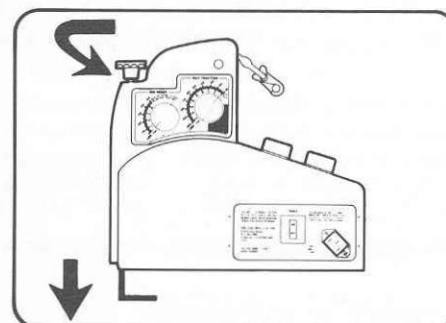


- E. MOVE Power On/Off Switch (7) to the "Off" position. DISCONNECT Power Supply Cord (Male End) (11) from electrical outlet.

INSTALLATION

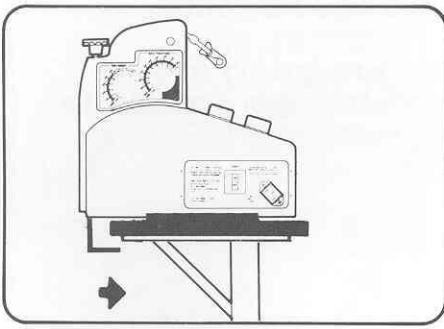
WARNING:

To prevent accidental disengagement, this machine must be securely attached to its receiving mount which in turn must be securely attached to adequate structural support. It is the responsibility of the owner/user to verify the adequacy of the installation BEFORE USE IN PATIENT TREATMENT.



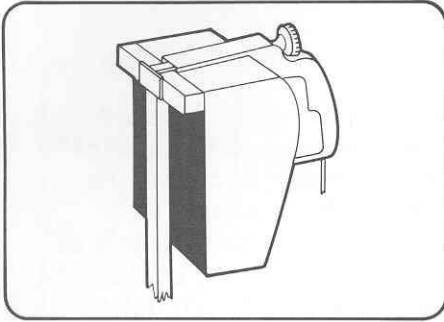
NOTE: Read and follow "Before Installation" instructions before proceeding.

- A. EXTEND the Clamping Bracket (9) as required by turning Clamping Knob (1) counterclockwise.



A1. For TRU-TRAC brand "2000 Series" Traction Tables:

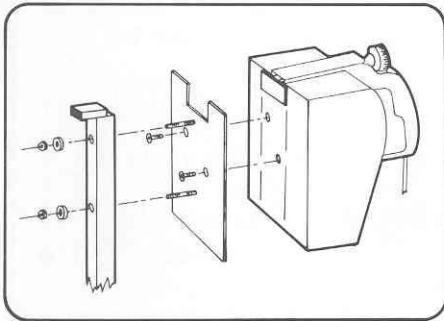
With Clamping Bracket (9) extended, SLIDE the machine fully on to the CENTER of the mounting platform. RETRACT the Clamping Bracket (9) by turning Clamping Knob (1) clockwise until it is firmly tightened. VERIFY that the Clamping Bracket (9) has securely engaged both the platform and the structural metal support which is attached to the platform.



A2. For TRU-TRAC brand "TS-93 Series" Traction Stands:

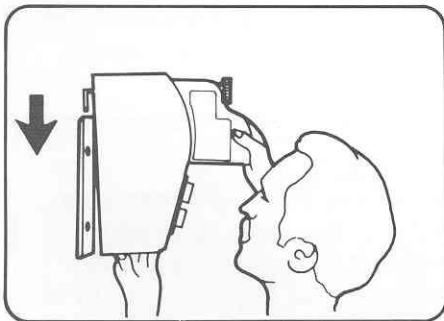
With Clamping Bracket (9) extended, SLIDE the machine down over the "T" shaped top of the stand and CENTER in place. RETRACT the Clamping Bracket (9) by turning Clamping Knob (1) clockwise until it is firmly tightened. VERIFY that the Clamping Bracket (9) has securely engaged the top of the stand and that the stand is securely assembled in accordance with its accompanying instructions.

NOTE: The TS-93 Series Traction Stand is for Cervical Traction Only — NOT TO EXCEED 50 LBS. (22.7 kgs.)



A3. For TRU-TRAC brand "MT-9100" Mobile Traction Stand:

Carefully mount TRU-TRAC™ traction machine to MT-9100 traction stand plate in accordance with MT-9100 instructions. ALIGN mounting plate studs with holes in upright staff and push completely through upright staff. Slide steel washers over studs and fasten tightly with self locking nuts. VERIFY that the MT-9100 and TT-92B has been securely assembled in accordance with the MT-9100 instructions.



A4. For TRU-TRAC brand "WM-0291" Optional Wall Mount:

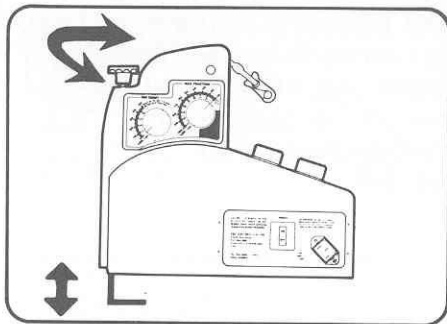
With Clamping Bracket (9) extended about one-third inch (1 cm), SLIDE the machine down so that the Clamping Bracket (9) fully enters the upper opening between the Wall Mount and the wall. RETRACT the Clamping Bracket (9) by turning Clamping Knob (1) clockwise until it is firmly tightened. VERIFY that the Clamping Bracket (9) has securely engaged the Wall Mount and that the Wall Mount is securely attached to the wall in accordance with its accompanying instructions.

A5. For TRU-TRAC brand "RT-99" Traction Table

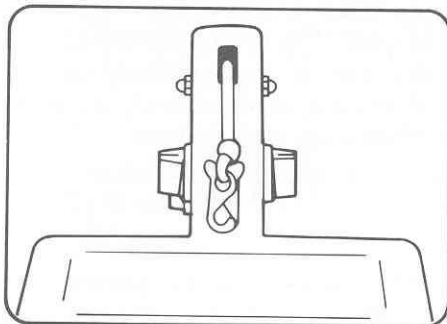
(discontinued in 1978): With the Clamping Bracket (9) extended SLIDE the machine fully on to the CENTER of the adjustable mounting board. RETRACT the Clamping Bracket (9) by turning Clamping Knob (1) clockwise until it is firmly tightened. VERIFY that the Clamping Bracket (9) has securely engaged the adjustable mounting board and that the table is properly assembled in accordance with its accompanying instructions.

- B. This machine is intended to be used only with tables, stands and accessories manufactured by TRU-TRAC Therapy Products Inc. (or TRU-EZE Mfg. Co. Inc.) and specifically designed for use with a TRU-TRAC™. Use in any other manner is dangerous and damage may result. Read and follow warning on page 1.

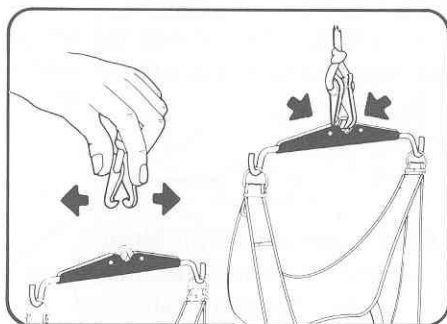
OPERATING CONTROLS AND FEATURES



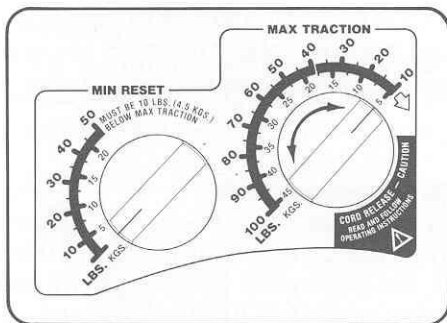
1. The Clamping Knob (1) is used to extend or retract Clamping Bracket (9) when installing or removing the machine. See "Installation" instructions for details.



2. The Braided Traction Cord (2) is securely attached to the Accessory Connector (3) with a special "bowline" knot. This knot should never be untied or cut off. To prevent wear and fraying, the machine should be mounted facing toward the desired direction of pull so that the Braided Traction Cord (2) does not contact the side of the slot from which it extends. Do not use the machine if signs of wear or fraying are observed on the Braided Traction Cord (2) — consult the factory for replacement. Read and follow warning on page 1.

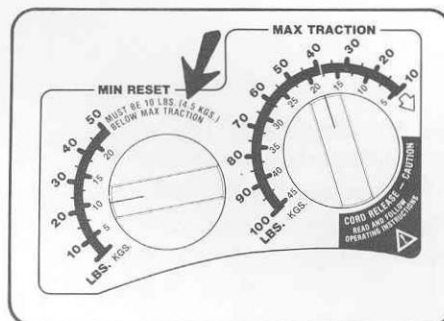
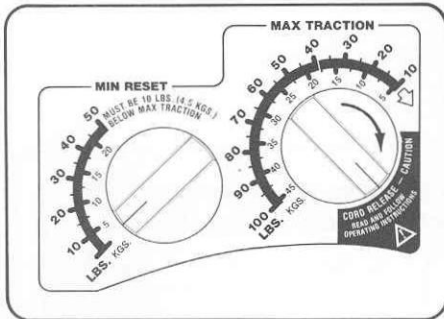
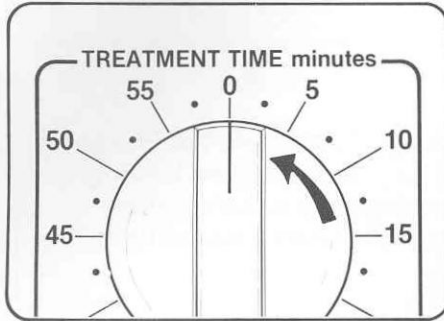
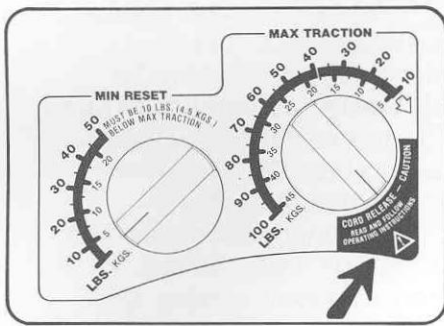




3. The Accessory Connector (3) is opened by using the thumb and index finger to "pinch" the two "tabs" towards each other inside the loop at the end of the knot. This action opens the Accessory Connector (3) to accept the metal bar or metal ring of the desired accessory such as Catalog Number SC-31S Spreader Bar or Catalog Number PT-110 Line-Tite Clamp with traction cord extension. Close the Accessory Connector (3) so that both halves engage the desired accessory.








4. The Max Traction Knob (4) is conveniently accessible from either side of the machine. The knob is used to determine the maximum traction force to be applied during the Hold phase and should be turned so that the white indicator line corresponds to the prescribed traction force between 10 and 100 pounds (4.5 and 45 kilograms) on the Max Traction dial.






The Max Traction dial settings in pounds are marked in cream colored numerals next to the graduations on the outside edge of the curved scale. Settings in kilograms are marked in orange colored numerals next to the graduations on the inside edge of the curved scale. The high traction range above 40 pounds (18 kilograms) on the curved scale is colored yellow as a caution reminder to the operator — see the description of High Traction Display (20) for details.







5. The  symbol on the Cord Release Position  of the max traction dial is intended to alert the user to the following:




CAUTION!

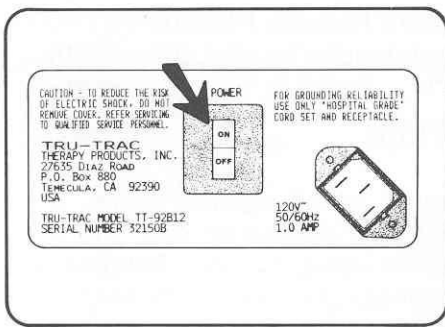
To interrupt or stop treatment, turn Treatment Timer Knob  to zero and wait until all tension has released automatically before using the Cord Release Position . To prevent damage, NEVER TURN MAX TRACTION KNOB  TO CORD RELEASE POSITION  WHILE TRACTION FORCE IS APPLIED TO BRAIDED TRACTION CORD .

With no traction force applied, the length of the Braided Traction Cord  may be adjusted by turning the Max Traction Knob  past the 10 pound (4.5 kilogram) setting to Cord Release Position . (Note: a mechanical interlock prevents the Max Traction Knob  from being turned past the 100 Pound (45 kilogram) setting to Cord Release Position .)

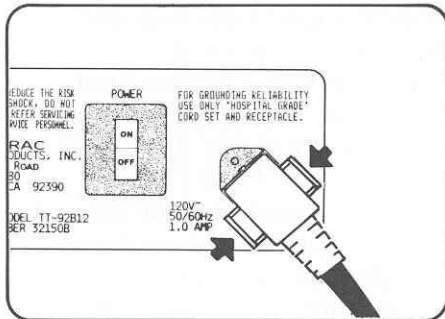
For proper operation, the machine requires a partial turn of Braided Traction Cord  on its take-up drum. Therefore, if a longer cord is desired (such as for lumbar traction), we recommend the use of Catalog Number PT-110 Line-Tite Clamp with traction cord extension.

6. In intermittent (rhythmic) traction treatments, the machine will repeatedly pull to and hold at the maximum force indicated by the Max Traction Knob , then release to and rest at the minimum force indicated by the Min Reset Knob . The Min Reset Knob  is accessible from either side of the machine and should be turned so that the white indicator line corresponds to the desired setting between 5 and 50 pounds (2.3 and 23 kilograms).

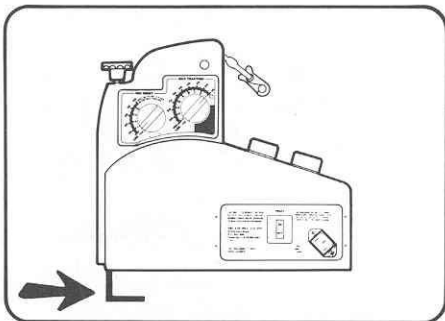
For proper operation, the Min Reset Knob  should be set *approximately* 10 pounds (4.5 kilograms) below the Max Traction Knob  settings. See the description of Min/Max Error Display  for details on insufficient differential between Min and Max settings.



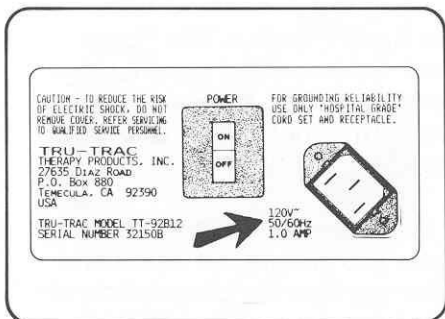
7. The Power On/Off Switch (7) is also a circuit breaker which takes the place of a conventional fuse in providing electrical current overload protection. To resume use after the circuit breaker automatically turns the Power On/Off Switch (7) to the "OFF" position, simply move the switch back to the "ON" position. Failure to stay in the "ON" position indicates a condition requiring repair; immediately disconnect the Power Supply Cord (Male End) (11) from the electrical outlet and consult the factory for repair service. Do NOT use the Power On/Off Switch (7) to stop or interrupt treatment — see "How to Stop or Interrupt Treatment" instructions.



8. The Power Supply Receptacle (8) accepts the Power Supply Cord (Female End) (12) and provides locking tabs which must be fully engaged to ensure proper connection — see "Before Installation" instructions.



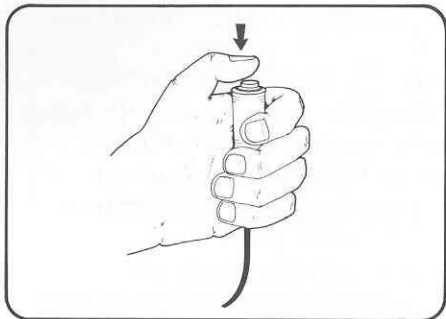
9. The Clamping Bracket (9) secures the machine to its receiving mount — see "Installation" instructions.



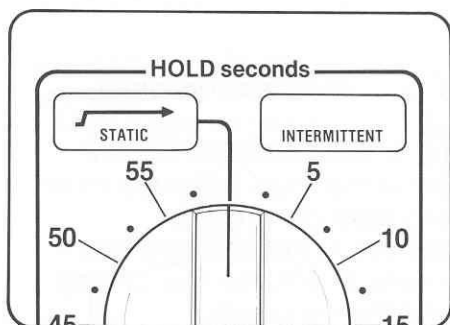
10. The Voltage Rating & Serial Number Plate (10) specifies the only electrical voltage on which the machine was constructed to operate. Do not connect the machine to the electrical supply without first verifying that it is the correct voltage. Contact your supplier if the machine is not properly rated — see "Before Installation" instructions.

11. & 12. The Power Supply Cord set (11) & (12) should not be used if damaged as this could cause electrical shock — see “Before Installation” instructions. Do not cut ground pin on Power Supply Cord (Male End) (11). Only use a properly grounded electrical outlet. Read and follow warning on page 1.

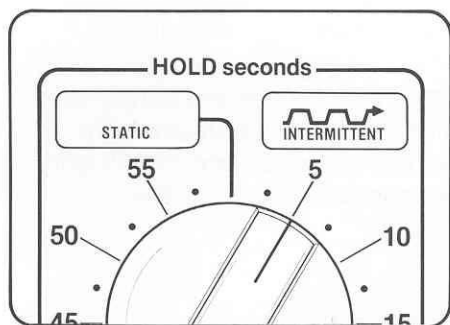
Do NOT disconnect the Power Supply Cord set to stop or interrupt treatment — see “How to Stop or Interrupt Treatment” instructions.



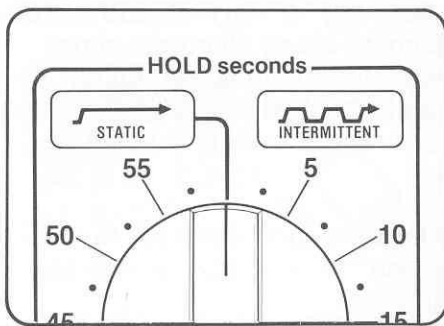
13. As a safety measure and to minimize any apprehension we recommend that you always give the low voltage Patient Interrupt Switch (13) to the patient. When the red button on the end of the switch is pressed, any applied tension automatically releases gradually. The operator may conveniently resume a patient interrupted treatment without the need to change control settings by turning the Power On/Off Switch (7) “OFF” and “ON” again. The Patient Interrupt Switch (13) also functions as a “call button” which enables the patient to audibly signal the operator for assistance whenever the red button is pressed.



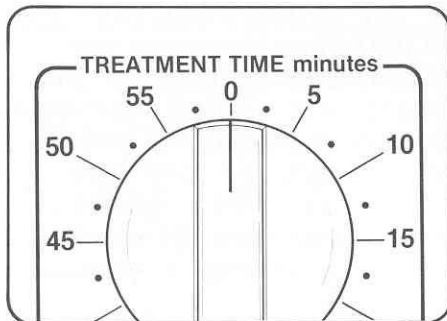
14. The Static Traction Mode Indicator (14) is a graphically displayed orange colored arrow which lights whenever the Hold Timer Knob (16) is turned to the setting marked STATIC (provided the power is connected and switched “ON”). During a static traction treatment, the machine will pull to and hold at the maximum force indicated by the Max Traction Knob (4) for the length of time indicated by the Treatment Timer Knob (17). (Note: If a sufficient differential has been provided between Min and Max settings, the Min Reset Knob (6) and Rest Timer Knob (18) settings will not affect the machine when operating in the static traction mode).



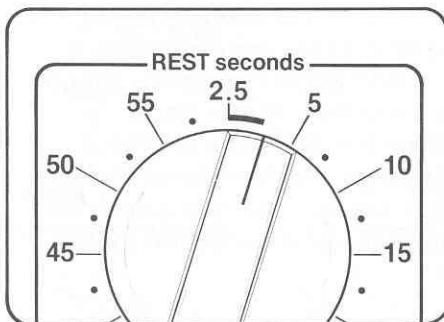
15. The Intermittent Traction Mode indicator (15) is a graphically displayed orange colored arrow which lights whenever the Hold Timer Knob (16) is turned to any setting other than the one marked STATIC (provided power is connected and switched “ON”).



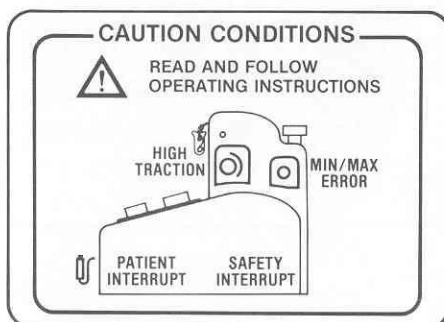
16. The Hold Timer Knob (16) is used to determine either the static traction mode, or the number of seconds to hold at the force indicated by the Max Traction Knob (4) during each cycle of the intermittent traction mode. During the hold phase of operation, the machine will automatically compensate for the normal loss of tension caused by harness stretch and patient movement. This "top-up" feature maintains the prescribed maximum traction force indicated by the Max Traction Knob (4) (Note: Although the Hold Timer setting may be changed at will, the new setting will not be recognized until the next cycle).



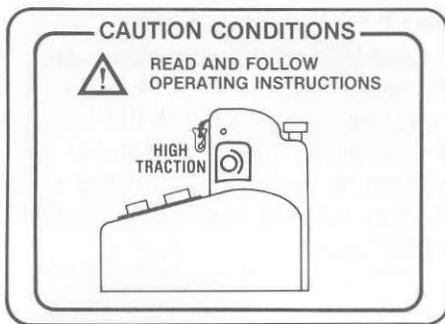
17. The Treatment Timer Knob (17) is used to start the treatment, determine its length in minutes, and to either stop or interrupt. Turn the knob so that its white indicator line corresponds to the desired length of treatment. The treatment timer is a mechanical clock that will "count down" to show the treatment time remaining plus automatically stop the treatment and ring a bell to signal the operator at zero. The treatment timer is the control used to start the treatment and the only one used by the operator to stop or interrupt treatment. After treatment timer reaches zero, wait until all tension has released automatically before using Cord Release Position (5) or removing harness from patient.



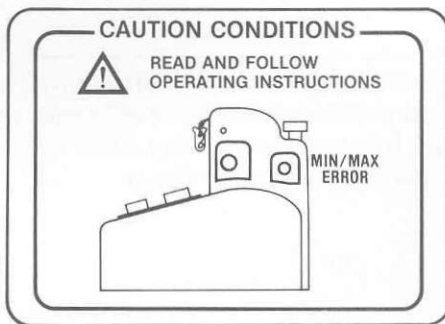
18. The Rest Timer Knob (18) is used to determine the number of seconds to rest at the force indicated by the Min Reset Knob (6) during each cycle of the intermittent traction mode. (Note: Although the rest timer setting may be changed at will, the new setting will not be recognized until the next cycle.)



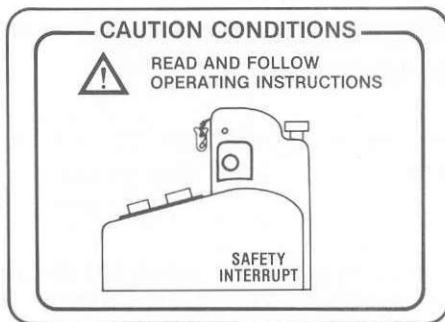
19. The Caution Conditions Section (19) of the instrument panel features four graphic displays which will light (provided power is connected and switched "ON") only upon the occurrence of a condition requiring the operator's attention.



20. As a caution reminder to the operator, the yellow colored High Traction Display (20) lights and remains lit whenever the Max Traction Knob (4) setting is increased to the high traction range above approximately 40 pounds (18 kilograms). As an additional caution reminder, the display will also flash and audibly signal five times at the start or resumption of a treatment in the high traction range.

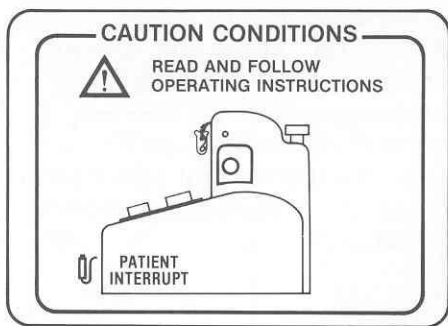


21. The yellow colored Min/Max Error Display (21) flashes and audibly signals the operator (in either static or intermittent traction modes) when the machine pulls to the maximum force indicated by the Max Traction Knob (4) without sufficient differential between the Min and Max settings. When this condition occurs, the treatment is automatically interrupted and the tension gradually releases. Although the machine will function normally at less differential, we recommend adjusting the Min Reset Knob (6) to at least 10 pounds (4.5 kilograms) below the Max Traction Knob (4) setting. After correction, the treatment may be resumed without the need to change other control settings by turning the Power On/Off Switch (7) "OFF" and "ON" again.

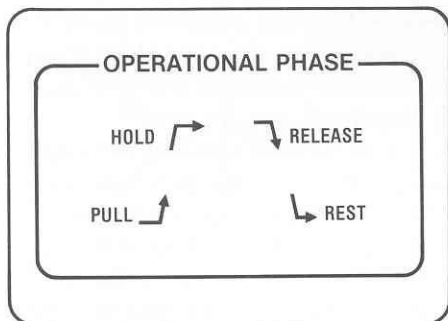


22. The red colored Safety Interrupt Display (22) flashes and audibly signals the operator when the machine's secondary safety circuit is actuated. When this condition occurs, the treatment is automatically interrupted and the tension gradually released.

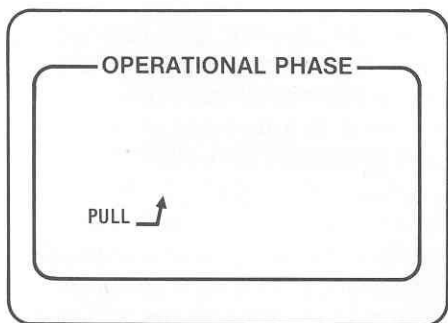
The secondary safety circuit is adjusted to actuate during treatment if the traction force applied exceeds the Max Traction setting tolerance. The two common causes for this condition during treatment are either the operator turned the Max Traction Knob (4) to a setting below the amount of traction force which was already applied, or the patient moved away from the machine in such a manner as to apply more traction force than was indicated by the Max Traction Knob (4). A third possible cause of the condition is an internal switch malfunction requiring repair service. The treatment may be resumed without the need to change control settings by turning the Power On/Off Switch (7) "OFF" and "ON" again. Safety interrupt on each resumption without "operator adjustment" or "patient movement" indicates a switch malfunction. Discontinue using the machine immediately. Disconnect the AC power cord from the AC outlet and consult the factory for repair service.



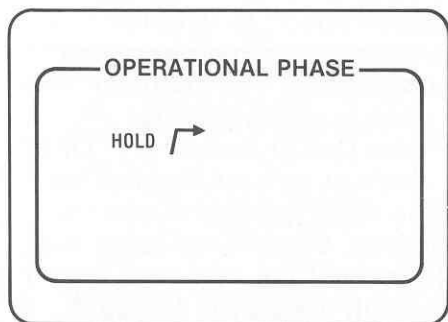
23. The yellow colored Patient Interrupt Display (23) flashes whenever the Patient Interrupt Switch (13) is actuated. The light continues to flash after the Treatment Timer Knob reaches zero to advise the operator that the patient may have interrupted the treatment prior to completion. A patient interrupted treatment may be resumed by turning the Power On/Off Switch (7) "OFF" and "ON" again.



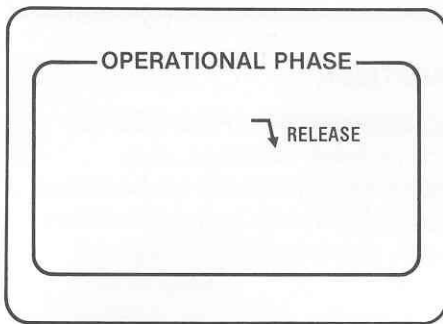
24. The Operational Phase Section (24) of the instrument panel features four orange colored displays that sequentially light during a treatment to advise the operator of the current operational phase status.



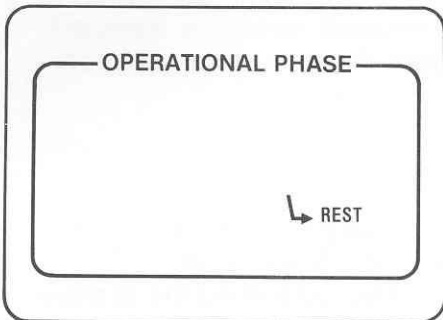
25. The Pull Phase Display (25) will light while the machine is increasing the tension applied either in static or intermittent traction modes.



26. The Hold Phase Display (26) will light when the machine has pulled to and is holding at the maximum force indicated by the Max Traction Knob (4). It either remains lit for the number of seconds indicated by the Hold Timer Knob (16) in intermittent traction mode, or for the length of time indicated by the Treatment Timer Knob (17) in static traction mode.



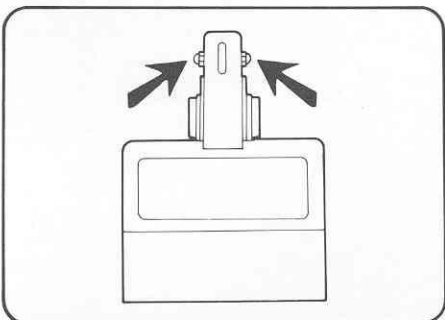
27. The Release Phase Display (27) will light while the machine is decreasing the tension applied in intermittent traction mode.



28. The Rest Phase Display (28) will light when the machine has released to and is resting at the minimum force indicated by the Min Reset Knob (6). It remains lit for the number of seconds indicated by the Rest Timer Knob (18) in intermittent traction mode.

RECOMMENDATIONS

- A. As with the safe use of any motorized equipment, your TRU-TRAC™ should only be used with a responsible adult in attendance. For that reason, do not attempt to put yourself in traction with this machine.
- B. In the event of a loss of power to the machine, traction force should **only** be released by gradually lengthening the patient harness adjustment straps. To prevent damage, NEVER TURN MAX TRACTION KNOB (4) TO CORD RELEASE POSITION (5) WHILE TRACTION FORCE IS APPLIED TO BRAIDED TRACTION CORD (2).
- C. If you are having difficulty operating your TRU-TRAC™ after carefully reviewing this guide, contact your supplier for assistance. If they are unable to resolve the problem, consult a Customer Service Representative at the factory.



- D. DO NOT USE any accessory or other device with your TRU-TRAC™ which requires the removal, modification, or replacement of the acorn nuts shown in the illustration to the left. Either overtightening of the original acorn nuts, or overtightening of any replacement/adaptor nuts can deform the housing and interfere with the safe and proper operation of the moving parts inside the housing of the TRU-TRAC™. Read and follow warning on page 1.

NOTE: The TRU-TRAC Brand "TD-9000" 3-Dimensional Cervical System may be an exception. If so, follow accompanying TD-9000 installation instructions carefully.

HOW TO START AND STOP OR INTERRUPT A TREATMENT

Traction treatments may be given only by or on order of a licensed practitioner. TRU-TRAC Therapy Products Inc. does not recommend the use of any specific traction force or timer settings. Any settings mentioned in the product instructions are for illustrative purposes only. Reprints of pertinent clinical studies and medical papers are available upon request without charge in either compendium or unabridged form.

- A. It is usually easier to align the harness on the patient while they are standing and then tighten the harness after positioning them relative to your TRU-TRAC™. Follow the fitting instructions supplied with the patient harness.
- B. Position the patient on the TRU-TRAC brand table or chair in accordance with the instructions supplied with those products. Note that the TRU-TRAC™ should be mounted facing the intended direction of pull so that the Braided Traction Cord (2) does not contact the side of the slot from which it extends.
- C. Tighten any slack in the harness so that it fits the patient securely.
- D. With the Max Traction Knob (4) set to Cord Release Position (5), slowly * pull the end of the Braided Traction Cord out and attach the Accessory Connector (3). The machine will automatically take up any slack in the Braided Traction Cord (2). *(Rapidly pulling the Braided Traction Cord (2) may cause internal tangling on the take-up spool.)
- E. Turn the Max Traction Knob (4) to the prescribed setting. Turn the Min Reset Knob (6) to the desired setting usually at least 10 pounds (4.5 kilograms) below the Max Traction Knob (4) setting.
- F. Move the Power On/Off Switch (7) to the "ON" position.
- G. Turn the Hold Timer Knob (16) to either the static traction mode, or the number of seconds of desired hold at the maximum traction force. If you are not using the static traction mode, turn the Rest Timer Knob (18) to the number of seconds of desired rest at the force indicated by the Min Reset Knob (6).
- H. Give the Patient Interrupt Switch (13) to the patient. If the patient is not already familiar with this switch's operation, an explanation and demonstration are recommended.
- I. Start the treatment by turning the Treatment Timer Knob (17) to the desired treatment length in minutes. Stop or interrupt the treatment by turning the Treatment Timer Knob (17) to zero and waiting until all tension has released automatically before using Cord Release Position (5) or removing harness from patient.

STORAGE INFORMATION FOR THE TT-92B:

Unlimited shelf life stored in original packaging. Do not store in direct sunlight. Do not expose to extreme temperatures or to moisture. Not intended for outdoor storage.


For long term storage, store unit in a sealed plastic bag within the original packaging.

LIMITED COPYRIGHT RELEASE

July 10, 1987

TRU-TRAC Therapy Products Inc. hereby grants a limited copyright release to the Federal Government of the United States of America, Dept. of Defense (D.O.D.) in connection with Solicitation No. DLA120-86-R-1744. We grant permission for the D.O.D. to reproduce the materials furnished under this contract for use in military services training program and other technical publications.

Signed,



Geoffrey J. Groves
President, TRU-TRAC Therapy Products Inc.

IN CASE OF TROUBLE

BEFORE CALLING FOR SERVICE CAREFULLY REVIEW THIS GUIDE

In the event you are still unable to correct the problem, consult the Customer Service Department at the factory for all repair service and to arrange for a loaner/rental unit. Be sure to specify your model number, serial number, and a detailed description of the problem encountered.

A.	<p>Machine will not pull and neither Static nor Intermittent Traction Mode Indicator (14) or (15) is lit:</p> <ol style="list-style-type: none"> 1. Power Supply Cord (Male End) (11) is not connected to electrical outlet. 2. Electrical outlet is not operable — try connecting another electrical appliance known to be in an operable condition (such as a lamp) to the same outlet to check this possibility. Check circuit breaker or fuse at building power panel. 3. If your electrical outlet is fitted with a GFI (ground fault interrupt) device, it may need to be reset. 4. Power Supply Cord (Female End) (12) is not fully engaged in Power Supply Receptacle (8). 5. Power On/Off Switch (7) is turned "OFF".
B.	<p>Machine will not pull and either Static or Intermittent Traction Mode Indicator (14) or (15) is lit:</p> <ol style="list-style-type: none"> 1. Max Traction Knob (4) is in Cord Release Position (5). 2. Treatment Timer Knob (17) is set at zero or not first turned past "5" minutes before setting to less than "5" minutes. 3. The number of seconds indicated by the Rest Timer Knob (18) have not elapsed. 4. The Rest Timer Setting was changed and the new setting will not be recognized until the next traction cycle. 5. A Min/Max Error, Safety Interrupt, or Patient Interrupt has occurred as indicated by lit displays (21), (22), or (23). 6. If your machine is a TT-92LV model which was upgraded to the TT-92B configuration, the Patient Interrupt Switch (13) and cord assembly may be unplugged or not fully inserted into its receptacle. 7. The Braided Traction Cord (2) is extended from the slot to its full length — allow some of the cord to retract back into the unit and use a Catalog Number PT-110 Line-Tite Clamp with traction cord extension.
C.	<p>Machine will pull but not release:</p> <ol style="list-style-type: none"> 1. Hold Timer Knob (16) is set for Static Traction. 2. The number of seconds indicated by the Hold Timer Knob (16) have not elapsed. 3. The Hold Timer setting was changed and the new setting will not be recognized until the next traction cycle. 4. The circuit breaker feature has turned the "Power On/Off Switch" (7) "Off". 5. There has been a loss of power to the machine — see possible causes following problem "A" above. 6. Another apparatus such as a short wave diathermy is in use too near the traction machine and is affecting its timers.
D.	<p>Machine pulls repeatedly while in Hold Phase.</p> <ol style="list-style-type: none"> 1. Machine is automatically taking up normal mid-treatment slack due to harness stretch or patient movement — see description of Hold Timer Knob (16) under "OPERATING CONTROLS AND FEATURES" for details on the "Top-up" feature.
E.	<p>Machine interrupts normal operation.</p> <ol style="list-style-type: none"> 1. Short wave diathermy and microwave diathermy devices typically generate radio frequency interference which, if used too near the traction machine, may interrupt normal operation. To correct this type of problem, simply avoid the concurrent use of diathermy devices in the vicinity of the traction machine.



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SUNRISE MEDICAL

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